

2008

Beginner School 2008 - Scouting Your Own Bog

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Beginner's School

**Hilary Sandler
IPM Specialist**

Scouting your own bog



Cranberry IPM



- ◆ **Sweeping**
- ◆ **Pheromone traps**
- ◆ **Berry inspection**
- ◆ **Estimate % out – of – bloom**
- ◆ **Weed mapping**
- ◆ **Tissue testing**

General Scouting

- ◆ Scout on the bog, not in the pick – up.
- ◆ At least weekly.
- ◆ Visual inspection: **What is out of the ordinary?**
- ◆ Keep good records.

General Scouting

- ◆ Inspect bigger issues from dikes.

Map or flag problem areas.

- ◆ Watch for unusual bird activity or animal behavior.

May indicate insects are out.



Needed Equipment



- ◆ **Sweep net (12'' diameter)**
- ◆ **Hand lens (10-15 x)**
- ◆ **Traps**
- ◆ **Small containers**



Needed Equipment



- ◆ ID books
- ◆ Data forms
- ◆ Knowledge
- ◆ Commitment !

Sweeping

- ◆ Start in early/mid – May.
- ◆ Sweep once per week.
- ◆ Make 180° sweeps.
- ◆ Depth may vary.
- ◆ Allow contents to settle.



Sweeping

- ◆ Sweep over **dry** vines.
- ◆ **Calm** conditions preferred.
- ◆ Scout during the **day**: ATs based on daytime counts.
- ◆ Check the rim.
- ◆ 25 sweeps = 1 set.



Do close – up observations



- ◆ **Webbing.**
- ◆ **Chewing.**
- ◆ **Actual insects.**
- ◆ **Weak areas may indicate soil insects.**



Who are we looking for?



- ◆ Cutworms, spanworms
- ◆ Gypsy moths
- ◆ CB weevil
- ◆ Spag larvae
- ◆ BHF larvae

How many sweep sets?

- ♦ 1 – 10 Acres: 1 set per acre
- ♦ 10-20 Acres: 10 sets total
- ♦ 20 + Acres: 1 set per 2 acres

Pheromone Traps

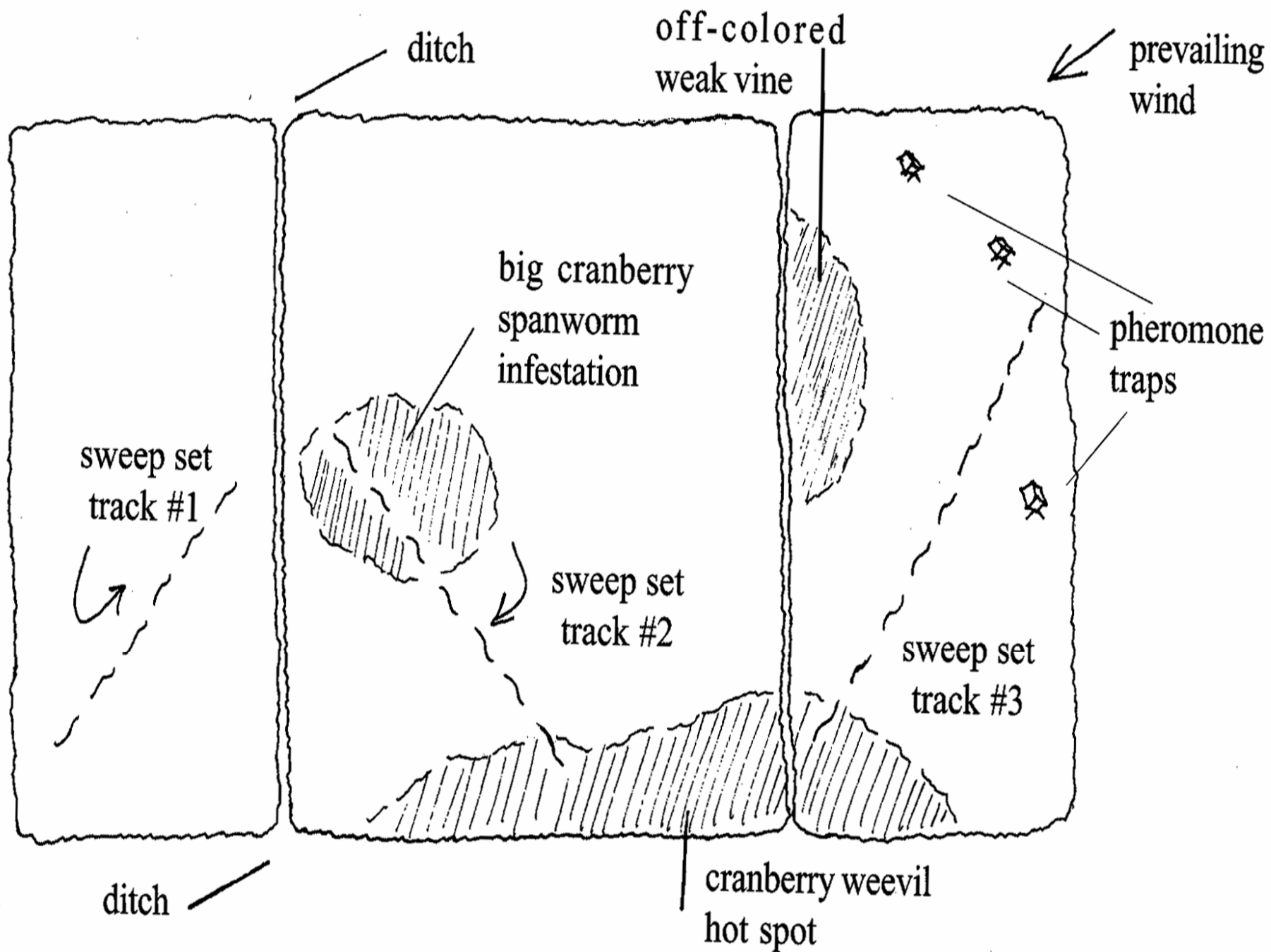
- ◆ Available for: Spag, BHF, and CB girdler
- ◆ Traps aid in **TIMING.**
- ◆ Consider bog history and evidence of damage.



Using Traps

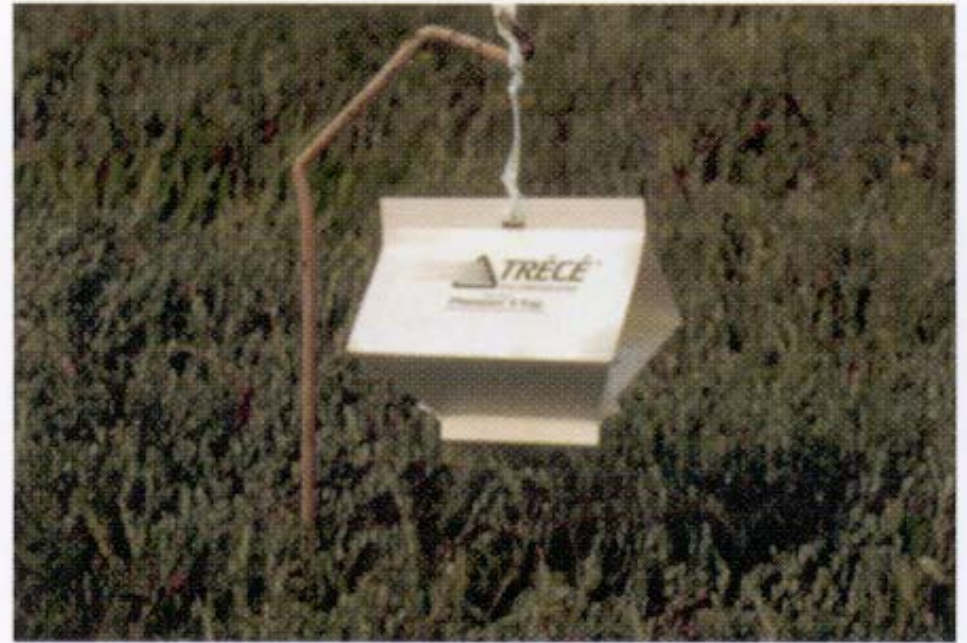


- ◆ Set out by June 1.
- ◆ Place on **UPWIND** side of bog.
- ◆ Use 1 trap per 10 acres.
- ◆ Inspect at least weekly.
- ◆ Change lures every 2-3 weeks.





Spag / BHF Trap



CG / BHF Traps

Timing Fruit Rot Management

- ◆ Estimate percent bloom.
- ◆ 1st spray, ~ 10 – 20 % bloom.
- ◆ Add'l sprays: 10 – 14 day intervals.
7-10 d intervals: Dithane, EBDCs.

Check the Chart Book!!

Percent Out – of - Bloom

- ◆ Used to time CFW sprays.
- ◆ Randomly select at least 1 site per acre.
- ◆ Sample minimum of 2 dates.

CFW Management Options

- ◆ Standard: Apply 1st spray x days after 50% oob.

7 – 9 days EB / H

5 – 7 days BL

3 - 5 days ST

- ◆ Apply 2nd spray 10 days later.

Scouting Method

- ◆ Spray *X* days after 50% oob.

7 – 9 d EB/H; 5 – 7 d BL; 3 - 5 d ST

- ◆ Scout for CFW eggs.
- ◆ Spray according to thresholds.

Late Water Practice

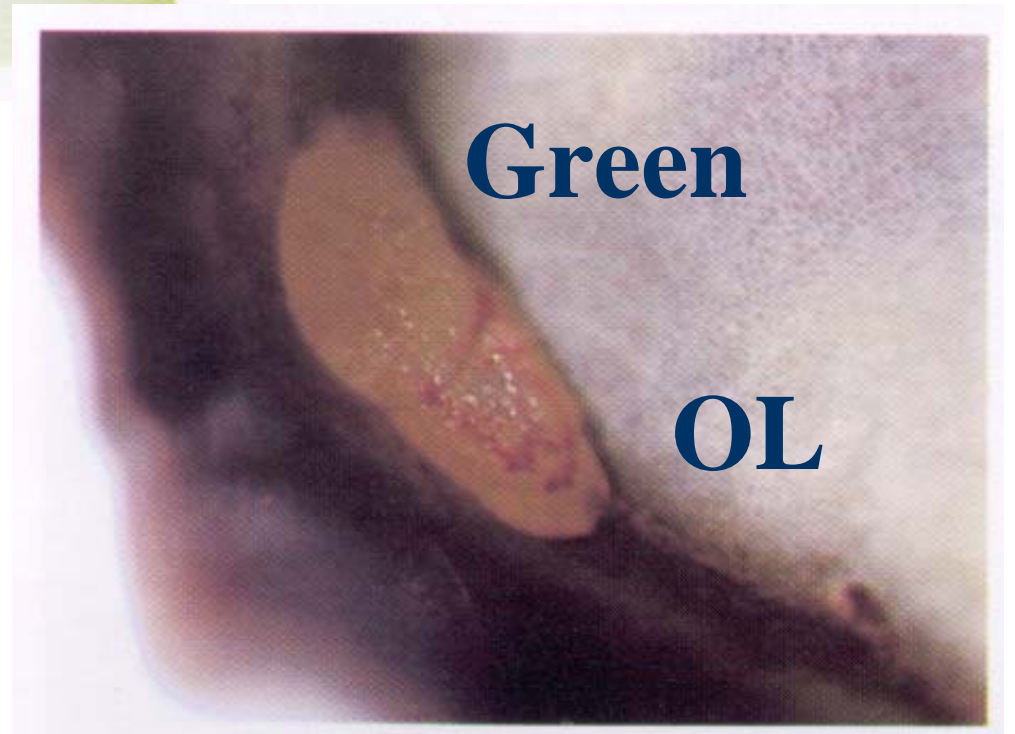
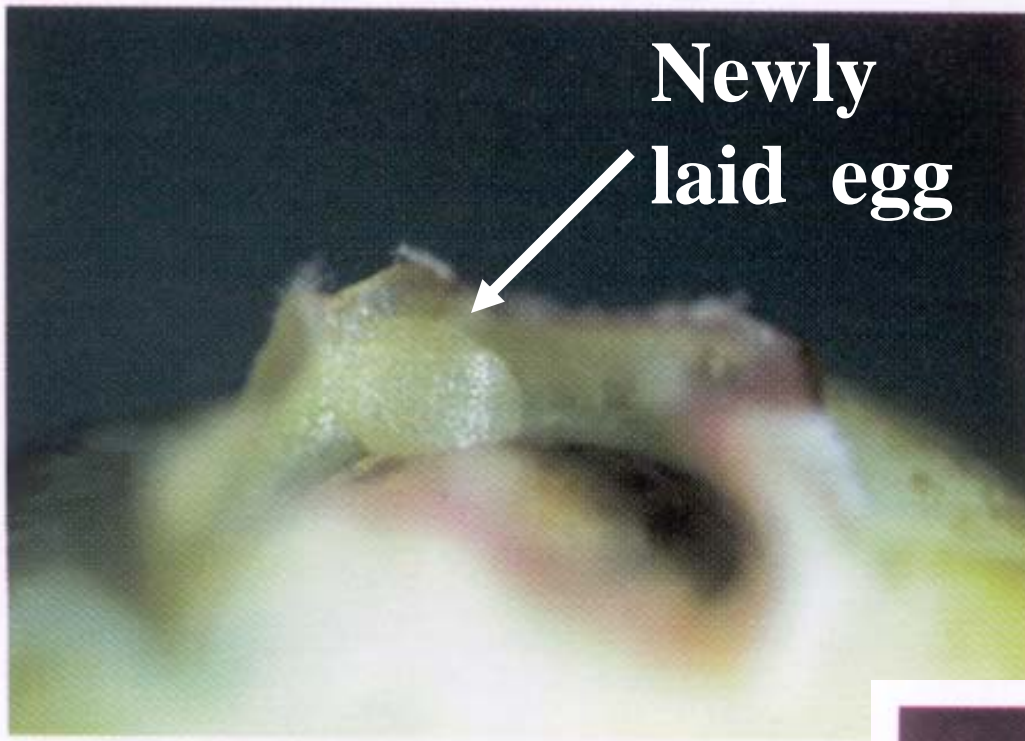
- ◆ As fruits set, monitor your bog for eggs. Follow guidelines in Chart Book for threshold values.
- ◆ If no spray is triggered, continue inspection every 3 – 4 days.
- ◆ If pressure is low, may be able to relax interval.



Sampling for CFW eggs



- ◆ Collect 50 fruit per acre.
- ◆ Minimum of 200 fruit per mgmt unit.
- ◆ Look in calyx end (opposite the stem end).



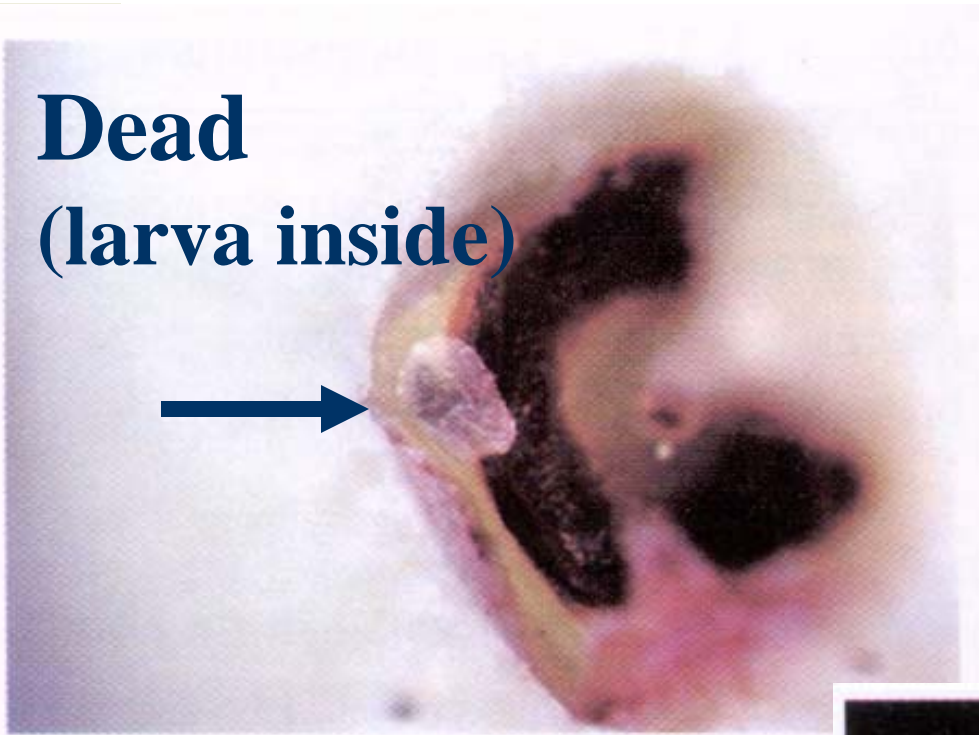
Hatched



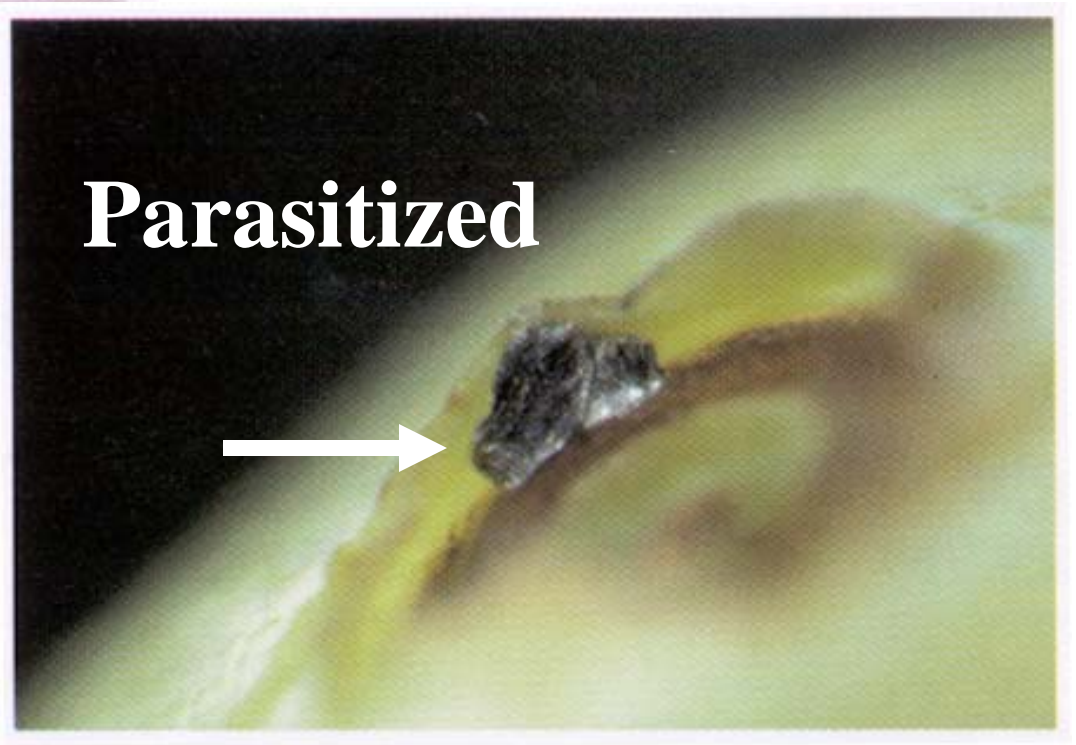
**Dried
out**



**Dead
(larva inside)**



Parasitized



Nutrition

- ◆ Plant development / vine color
- ◆ Length and density of uprights

Total growth on new uprights:

EB / H: 2.25 inch

ST / BL: 2.5 inch

Density: EB: 600 upr / ft²

H / ST / BL: 400 upr / ft²

Tissue Tests

- ◆ Mid – August thru mid - September
- ◆ Collect UPRIGHTS (top 2”) only.
Never collect roots, fruit,
runners, trailing woody stems,
or soil
- ◆ Collect when vines are dry.

Tissue Tests

- ◆ Walk a transect across bog.
- ◆ Air – dry overnight.
- ◆ Request N determination.
- ◆ **Problem areas:** gather 1 sample from the affected area & 1 from normal area.



Weed Mapping



- ◆ Annual activity
- ◆ Find your own method.
- ◆ Make decisions for next year.



Weed Mapping



- ◆ **Prioritizes your weed problems.**
- ◆ **Aids in decision – making.**
- ◆ **Forms historical record.**

Priority Groupings

- ◆ Potential for yield loss
- ◆ Rate of spread
- ◆ Difficulty of control

Developed by M.J. Else, S. Schluter, and H.A. Sandler, 1995.



Priority One



- ◆ **Zero threshold**
- ◆ **Causes severe loss**
- ◆ **Spreads rapidly**
- ◆ **Difficult to control**



Priority Two



- ◆ **Serious concern**
- ◆ **Less damaging than P1**
- ◆ **Spreads rapidly**
- ◆ **Difficult to control**



Priority Three



- ◆ Of less importance
- ◆ Low yield impact
- ◆ Spreads slowly
- ◆ Control not as difficult as P1 and P2

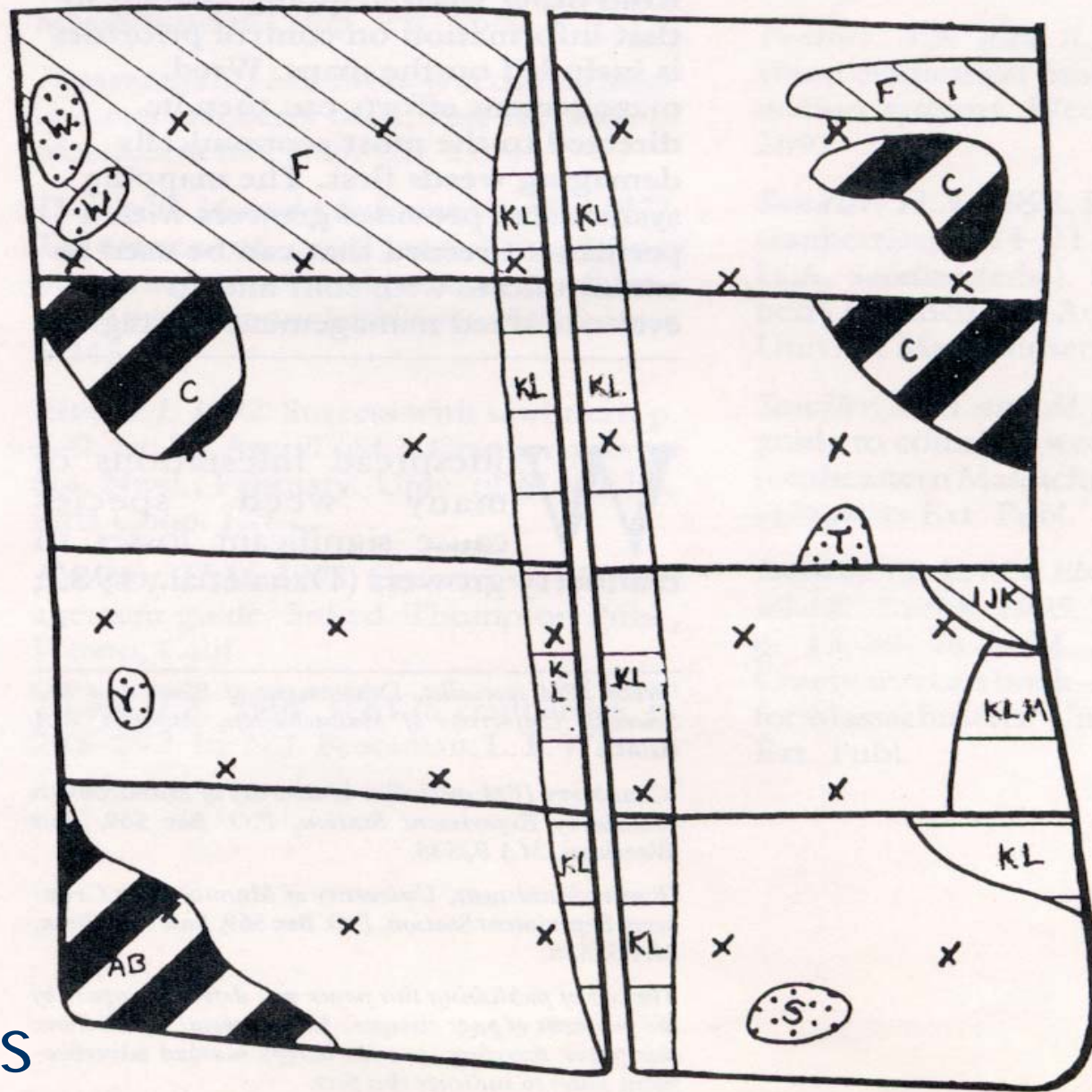


Priority Four



- ◆ **Lowest concern**
- ◆ **Found mostly on edges and bare spots**
- ◆ **Fairly easy to control**

A=Rubus
 B=Dodder
 C=Smilax
 F=NLGR
 K=Sedges
 L=Grasses
 S=Violet
 x=sprinklers



A photograph of two people in a field of tall grass and shrubs, with a dense forest of trees in the background. The person on the left is wearing a yellow shirt, dark pants, and a white cap, and is bent over holding a white bag. The person on the right is wearing a white shirt, light-colored pants, and a white cap, and is standing and looking down at something in their hands. The text "QUESTIONS?" is overlaid in the center of the image.

QUESTIONS??